TUKHMANOVA, T.S.inzhener; MCRDVINKD, H.A., inzhener, redaktor; BRAYLOVSKIY, B.O., inzhener, redaktor; VKRIHA, G.P., tekhnickeskiy redaktor

[Progressive work methods in railroad car economy] Peredovye metody truda v vagonnom khoziaistve. Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 283 p. (MIRA 10:2)

(Railroads--Cars)

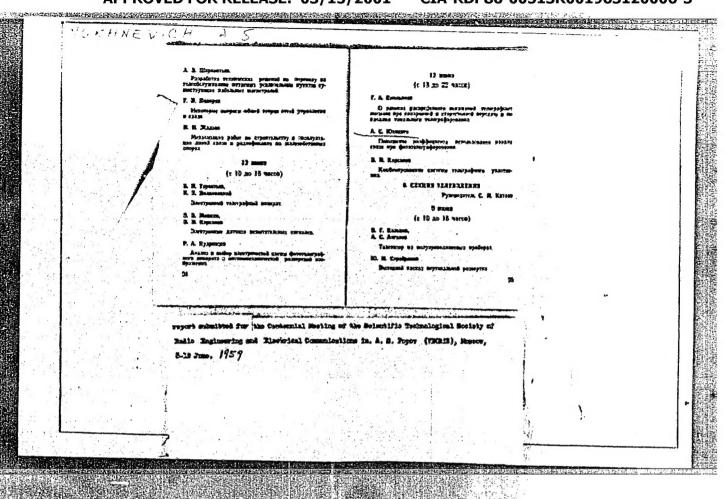
YUKHNEVA, N.V.

Working class movement in Petersburg in 1901.

The following dissertations were defended in the Institute of Archeology, Candidate of Historical Sciences.

Vestnik Akad Nauk, No. 4, 1963, pp. 119-115

YUKHNEVA,	V.S. V.S. arly feeding cycle of the Taz whitefish Co ol.zhur.34 no.1:158-161 Ja-F '55.	oregoms sardinella Val. (HIRA 8:3)
1.	Laboratoriya gidrobiologii Or'-Taxovskog (Taz Bay-Whitefishes) (Fishes-Food)	go otdeleniya VNIORKh.



I 18395-65 Sediciverial paper reports on the experimentation and action of fect.

DOPIC TAGS: recombination, radiative recombination of fect.

Tion defect, par junction

ABSTRACT: The present paper reports on the experiment of recombination radiation from impurity regions of junctions irratiated by gomma rays and fast ratios.

Cord 1/4

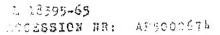
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ito natype We with a recipion to of In and Locations was kept at a minimum. The lated by fast neutrons in a recommendation of Indian St. Je are son that to rate to rate to rate feet level. The component of the level of the later component of the later component

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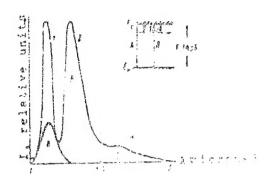
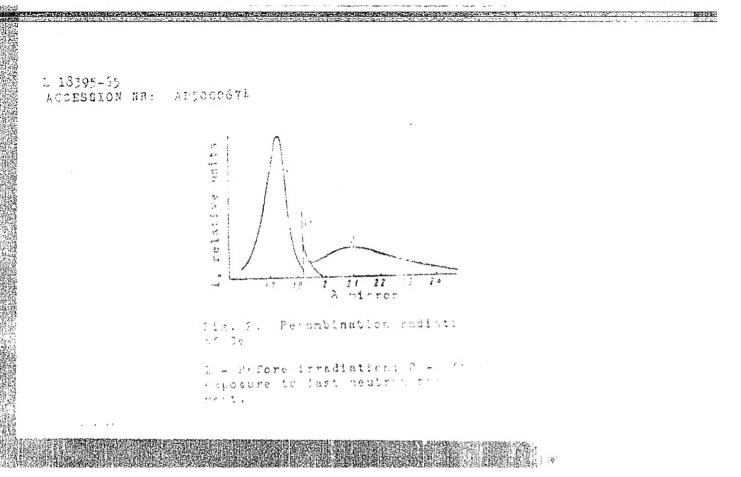


Fig. 1. Recommented transfer of the trum of Di

A = Before irrae attent 2 - after diation; A = intrinsic recombinat.

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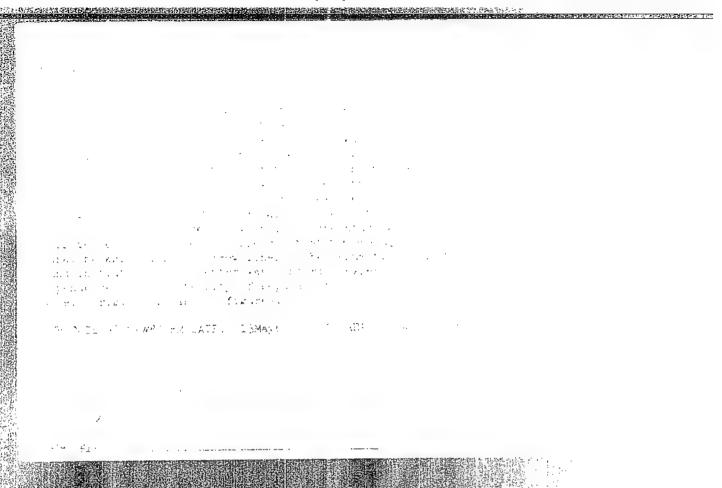


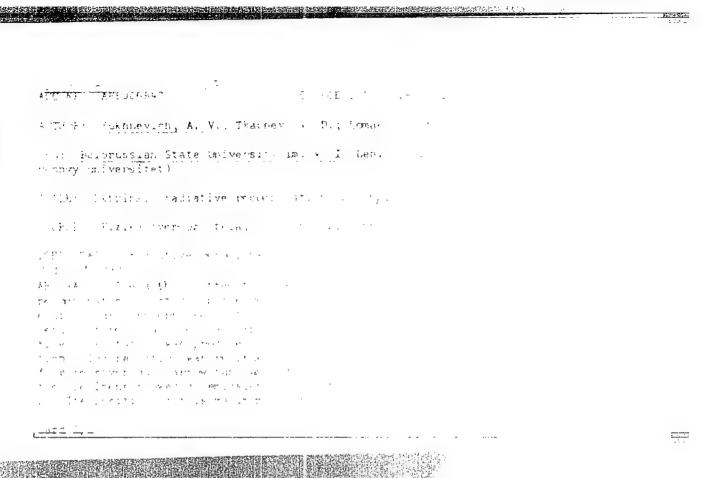
- 24166-55

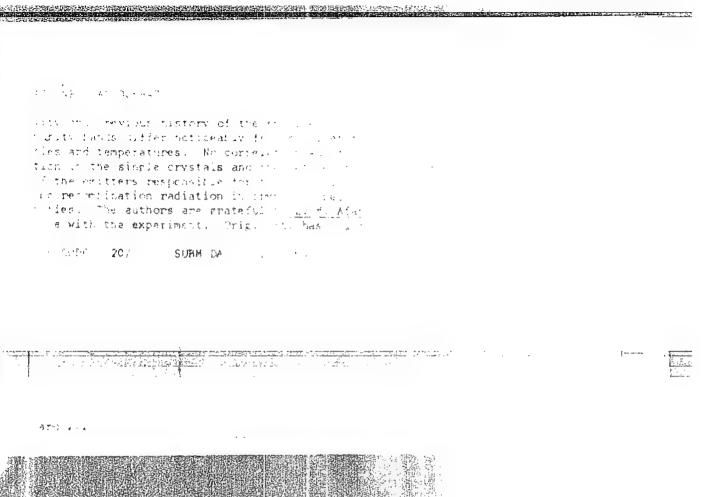
ACCESSION NR: AF5003469

excited level of the A-center. Assuming a phonon:
excited level of the hole is located 0.025 e. above
valence band. The radiation with a maximum of 0.41
apparently during the recombination of a hole with

4974-66 ENT(1)/ENT(m)/EPF(e)/EPF(h)-2/T/ENP(h)/ENP(h)/ENA(c) 13P(e) -3D/CC







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ACC NR. AP6036960

(A,N)

SOURCE CODE: UR/0181/66/008/011/3213/3217

AUTHOR: Yukhnevich, A. V.; Tkachev, V. D.; Bortnik, M. V.

ORG: Eelorussian State University in. V. I. Lenin, Minsk (Belorusskiy gosudarstvennyy universitet)

TITIE: Annealing of bands of impurity recombination radiation in silicon irradiated with gamma quanta

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3213-3217

TOPIC TAGS: recombination radiation, radiative recombination, semiconductor carrier, gamma irradiation

ABSTRACT: The isochronous annealing of infrared radiation bands arising in silicon from the radiative recombination of excess carriers across the levels of radiation defects was studied. In the 25-600°C range, the successive appearance and disappearance of various bands was observed, indicating a complex character of the rearrangement of defects during annealing. The results obtained show an important role of oxygen in the formation of recombination centers in silicon upon irradiation with gamma quanta. On the other hand, this recombination radiation is a good indicator of low oxygen concentrations, and can be used to determine the latter. Thus, recombination radiation can be used as a means of studying the radiation defects of silicon and processes of their rearrangement during heat treatment. Nine different "radiating" radiation defects were observed, and the kinetics of their annealing showed the struc-

Card 1/2

ture of stable radiation defects to be complex. Oxygen atoms are an integral part of most of the radiation defects responsible for the observed bands of impurity recombination radiation. Phosphorus atoms participate in the formation of centers radiating D and E bands, and boron atoms take part in the formation of centers radiating F and I3 bands. The majority recombination centers (determining the lifetime of excess carriers) are annealed at 400-500 °C. They are also linked to oxygen and are centers of nonradiative recombination. The intensity and energy distribution of the various bands of recombination radiation of silicon centaining radiation defects and subjected

bands of recombination radiation of silicon containing radiation defects and subjected to heat treatment permit an analysis of the content of chemical impurities in the initial single crystals. Both active (boron, phosphorus) and inactive impurities (oxygen) can thus be analyzed. Authors thank Z. M. Afanas yev and P. S. Solov yev for their systematic assistance in the course of the experiments. Crig. art. has: 1 figure and 1 table.

SUB CODE: 20/ SUEM DATE: 21Mar66/ ORIG REF: 006/ OTH REF: 008

Card 2/2

ا معيده . فيانوتانيا	1 27360-65 EnT(G /EMP(t)/ETI .TP(c) JO ACC NR APGULLING DOURCE COLLECTION	
Ē.	AUTHORS: Se of nko, A. N.; Teamer, '	
	TRO: Twitten ton State Uniteralty im. The superstance of antiversitet)	
	TTLE: livestigation of the influence to learning properties of silicon with the con-	
	TURY . AN PIGR. Dowlady, as I . we have	
	ones, on TAGS: Climen, etaple to the contest of the property of the contest of th	
	ABSTRATIO The purpose of to law the stability of different radiation durant of crystol will on when leradiated with established was polyge silicon with relief to the stability of axysen. The irradiction at each of table separator at Johnand son the could be placed in the could be proposed to the could be separated.	
9277 2 1	Card 1/	

L 27360-66

ACC NR APEC11529

A. F. Plotnikov et al. (PTE, no. 3, 187, 198.). camples whose photoconductivity spectrum displanafter the descation of the irradiation, a q ired after prolonged at mage at liquid-mitrogen length uted to diffusion of the vacancy pairs resulting tardment. An increase in the temperature and the bombardment causes the point defects disannealed. The results are interpreted and recon. scheme of the defects. A quantitative interpretais made difficult by the presence of different which can become transformed into each out i in: rt. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 14Jun55/ ORIG REF: 1

2/2 1/

ACC NR. AF6012-96

AUTHOR: Yukhnevich, A. V.; Tkachev, V. D.

ORG: Belorussian State University im. V. I. Lenin, Miner universitet)

TITLE: Optical analog of the Mossbauer effect in string.

SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1941, 1941.

TOPIC TAGS: silicon, Mossbauer effect, recombination of radiation damage, single crystal

ABSTRACT: This is a continuation of radiate strong radiation, with characteristic lines have a continuation of radiation and analog of the present tow stigett.

radiation with characteriated and activation v. 7, 3410, 1965. In the present tow stigation sion bands occurring in silicor during the course Nonequilitrium carriers were produced in the produced in the system of electric impertion through a different was analyzed with a measurement of the system was in racum of 100 and Hg. Pive different disappeared significances were observed in the earlier investigations.

Card 1/2

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CIA-RDP86-00513R001963120006-3

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L 28001-66

ACC NR: AP6012496

served bands and of the temperature dependent components with the published data leads to the first is an optic analog of the Mossbauer effect of silicon. Each band has a narrow line adjalant to a pronounced maximum. The narrow lines are due to phonoun within the centers, and the long-wave components are due to with emission of acoustic phonons. The appearance evidence of the complex nature of the centers for help with the preparation for the experiment (right 1 table.

SUB CODE: 20/ SUBM DATE: G40-t55 GFT HE COM

Cara 2/2 C 3

CIA-RDP86-00513R001963120006-3 "APPROVED FOR RELEASE: 03/15/2001

SOV/48-22-9-35/40 Babushkin, A. A., Yukhnerton, G. Berezkina, Yu. V., Spitsyn, V. I. AUTHORS:

Investigations of the Structure of Some Complex Compounds (Spektroskopicheskiye issledovaniya Spectroscopic TITLE: stroyeniya nekotorykh kompleksnykh soyedineniy)3. Influence of Water on the Structure of Para- and Meta-Sodium-Tungstenates (3. Vliyaniye vody na stroyeniye

para- i metavol'framatov natriya)

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1958, PERIODICAL:

Vol 22, Nr 9, pp 1134 - 1135 (USSR)

This is a condensation of the paper published under the above subtitle Nr 3 in the "Izvestiya Akademii nauk ABSTRACT: SSSR" by A.A. Babushkin . It covers the investigation

of the infrared absorption spectra of paratungstenates $(5Na_20.12W0_3)$ with a composition of $28^{\circ}H_2^{\circ}0$, $19^{\circ}H_2^{\circ}0$, $9^{\circ}H_2^{\circ}0$,

4 H20, 2 H20 and of water-free tungstenate. Two ranges, that of the valence- and deformation oscillations of the tungstenate ion (700 - 1700 cm⁻¹) and that range

Card 1/2

CIA-RDP86-00513R001963120006-3" APPROVED FOR RELEASE: 03/15/2001

Spectroscopic Investigations of the Structure of Some SOV/48-22-9-35/40 Complex Compounds. 3. Influence of Water on the Structure of Para- and Meta-Sodium-Tungstenates

(3000 — 3800 cm⁻¹) which is especially favorable for a study of the aqueous state were investigated. Besides, the absorption spectra of meta-sodium-tungstenate (Na₂W₄O₁₃) with a composition of 10 H₂O, 7 H₂O, 2H₂O and of a water free

meta-sodium-tungstenate were studied. A comparison of the results of the investigation of various hydrates of para-andof neta-tungstenates permits a joint treatment. An immediate connection between the coordination of the water in the complex and the anion structure of the isopoly compounds was established to exist. A modification of the water coordination at a dehydration leads to an alteration of the structure of the anion. The maintenance an alterartion of the structure of the complex. There are 2 figures.

ASSOCIATION: Card 2/2 Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, AS USSR)

Pukhnevich, a. A.: Yuchnevich, G. V. BABAD-ZAKHRYAPIN, A. A.: Yuchnevich, G. V. "Some Problems of Iso- and Heteropoly-Compounds Crystal Chemistry" a report presented at Symposium of the International Union of Crystallography Leningrad, 21-27 May 1959

(4.15(4) T SOV/78-4-4-19/44 AUTHORS: Babushkin, A. A., Yukhnevich, G. V., Berezkina, Yu. F., Spitsyn, Vikt. I.

> Investigation of the Effect of Water on the Structure of Sodium Para- tungstate and Sodium Meta-tungstate Using the Method of Infra-red Absorption Spectra (Issledovaniye vliyaniya vedy na stroyeniye para- i metavol framatov natriya metei a infrakrasnykh spektrov pogloshcheniya)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 4, pp 823-829

ABSTRACT: The authors investigated the effect of water upon the structure of sodium para and meta tungstate and the type of conding of the water in the anions of these compounds. The infra-red atsorption spectra of sodium para and meta tungstate were plotted for different water contents using the IKS-1 spectrophotometer with sodium chloride and lithium fluoride prisms. The infracted absorption spectra for sodium para-tungstate with 28H2O, 19H2O,

 $9\text{H}_2\text{O}$, $4\text{H}_2\text{O}$, $2\text{H}_2\text{O}$ and $0.2\text{H}_2\text{O}$ per molecule of $\text{Na}_{10}\text{W}_{12}\text{O}_{41}$ as well as the anhydrous para-tungstate were investigated. The investigated gation was carried out over the spectral ranges 700-1700 ca-1

Card 1/3

TITLE:

CIA-RDP86-00513R001963120006-3" APPROVED FOR RELEASE: 03/15/2001

SOV/78-4-4-19/44

Investigation of the Effect of Water on the Structure of Sodium Para-tungstate and Sodium Meta-tungstate Using the Method of Infra-red Absorption Spectra

and 3000-3800 cm-1. For sodium para-tungstate hydrates in the transition from 19H,0 to 9H,0 a marked change in the structure of the coordination water and in the structure of the anions occurred. The structures of the hydrates of the sodium metatungstate remained unchanged. Using spectroscopic methods and isotope exchange of hydrogen against deuterium it was found that in the sodium para-tungstate with 28H,0 three forms of the coordination water exist. One of these forms is present as the hydroxyl group, which is bound directly to the tungsten atom. Likewise in the hydrates of the sodium meta-tungstate there is a form of the coordination water as the hydroxyl group bound directly to the tungsten atom. Infra-red absorption spectra of sodium meta-tungstate were plotted for 10.7 and 2H20 and the anhydrous sodium meta-tungstate in the ranges of 3000-3800 cm $^{-1}$ and 1300-600 cm $^{-1}$. These are shown in figures 4 and 5. These spectra show that there is no difference between the absorption spectra of these hydrates of sodium meta-tungstate.

Card 2/3

Investigation of the Effect of Water on the Structure of Sodium Para-tungstate Using the Method of Infra-red Absorption Spectra

No specific absorption was found for the anhydrous sodium meta-tungstate in the range 3000-3800 cm-1. The differences in the optical densities of the various hydrates are shown in a absorption maxima of the hydrates of sodium meta-tungstate. There are 5 figures, 2 tables, and 8 references, 4 of which are Soviet.

ASSOCIATION:

Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences, USSR)

SUBMITTED:

January 13, 1958

Card 3/3

5(4) SOV/78-4-6-42/44 AUTHOR: Yukhnevich, G. V. TITLE: On the Problem of the Nature of Water Contained in Sodium Parawolframate (K voprosu o prirode vody vkhodyashchey v paravol'framat natriya) PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, pp 1459 - 1460 (USSR) It is assumed that 10-exemium ions are contained in sedium-ABSTRACT: parawolframate. The formula $\text{Na}_{10}\text{W}_{12}\text{O}_{46}(\text{OH}_3)_{10}.13\text{H}_2\text{O}$ is suggested with respect to their existence for Na $_{10}^{W}$ $_{12}^{O}$ $_{41}^{.28H}$ $_{20}^{.0}$. The unstable exemium ions are destroyed by the dehydration of sodium-parawolframate. Infrared spectra of this compound were taken and given in figures 1 and 2. Thus the existence of the exonium ions was confirmed. The dehydration process of sodium-parawolframate was discussed. There are 2 figures and 6 references, 3 of which are Soviet. SUBMITTED: February 3, 1959 Card 1/1

YUKHNEVICH, G.V.; BABUSHKIN, A.A.; KOLLI, I.D.

Influence of water on the structure of potassium silicotungstate. Zrur.neorg.khim. 5 no.5:1176-1177 by '60. (MIRA 13:7)

1. Institut fizicheskoy khimii Akademii nauk SSSR. Kafedra neorganicheskoy khimii khimicheskogo fakul teta Moskovskogo gosudarstvennogo universiteta. (Potassium silicotungstate)

S/078/60/005/009/039/040/XX B017/B058

AUTHOR:

Yukhnevich, G. V.

TITLE:

Composition of the Thermal Decomposition Products of Some

Aquo- and Heteropoly Compounds (

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 9,

pp. 2132 - 2134

TEXT: The composition of the thermal decomposition products of some aquoand heteropoly compounds was studied by means of infrared spectroscopy. The spectra were recorded by the ultraspectroscope NKC-1 (IKS-1) in the spectral range of from 650 cm⁻¹ to 1300 cm⁻¹. The spectra of the compounds WO₃, WO₃·H₂O, WO₃·2H₂O, Na₂WO₄·2H₂O, K₂WO₄, and Na₂W₂O₇, as well as those of the corresponding decomposition products, resulting at 700°C, were recorded. All samples were studied in the form of oil emulsions. The recording sensitivity of the spectra amounts to +1.5 cm⁻¹. The results of the study are summarized in Figs. 1 and 2 and tabulated. It follows from

Card 1/3

Composition of the Thermal Decomposition Products of Some Aquo- and Heteropoly Compounds :

s/078/60/005/009/039/040/XX

the results that the simple tungstates may be divided into three groups:

- 1) WO3, WO3.H2O, WO3.2H2O with wide bands between 600 to 900 cm-1;
- 2) Na2WO4.2H2O, K2WO4 with intensive band at 810 cm⁻¹, a weaker one at 925 cm 1;
- 3) Na2W207 with nine distinct narrow bands. On the basis of spectral analyses of thermally treated samples, statements on their structure can also be made. The decomposition products of sodium tungstate and potassium silicotungstate are not a simple mechanical mixture of WO3, Na2WO4, and Na2W2O7. The spectra of the decomposition products of sodium metatungstate and potassium silicotungstate show great similarity with the spectrum of tungsten trioxide. The spectra of the decomposition products of sodium paratungstate and sodium ditungstate, obtained at 700°C, are almost similar. The author thanks Vikt. I. Spitsyn for the theme of the study. There are 2 figures, 1 table, and 9 references: 6 Soviet, 1 Swedish, 1 British, 1 Danish, and 1 Swiss.

Card 2/3

Composition of the Thermal Decomposition Products of Some Aquo- and Heteropoly Compounds

S/078/60/005/009/039/040/XX **B017/B**058

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo Akademii nauk SSSR (Institute of Geoghemistry and Analytical Chemistry imeni V. I. Vernadskiy of the Academy of Sciences

SUBMITTED: March 25, 1960

Card 3/3

CIA-RDP86-00513R001963120006-3" APPROVED FOR RELEASE: 03/15/2001

YUKHREVICH, G.V. Hydroxonium ions in heteropolyacids. Zhur. neorg. khim. 6 no.1:231-233 '61.

> 1. Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR.

(Oxonium compounds—Spectra) (Silicotungatic acid-Spectra)

(MIM 14:2)

CIA-RDP86-00513R001963120006-3" APPROVED FOR RELEASE: 03/15/2001

YUKELEVICE, G.V.

State of the water in hydrated potassina silicotrogetate. Zam. neorg. Whim. 6 no.1:233-234 151. (M. A. M.: 1)

1. Institut goo'thimii i analithcheskoy khimii im. V.I. Vermalato o AN SBSR.

(Potassium pilicontungatate)

BINZBURG, I.V.; YUKHNEVIGH, G.V.

Hydroxonium ion in amphibolities [with surrary in English].

Geokhimida no.1:30-36 '62. (MIRA 15:2)

1. Mineralogical Museum A.E.Fersman of the Academy of Sciences, U.S.S.R. and V.I.Vernadski Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R. (Oxonium icn) (Amphibolites)

YUKHNEVICH, G.V.; SENDEROV, E.E.

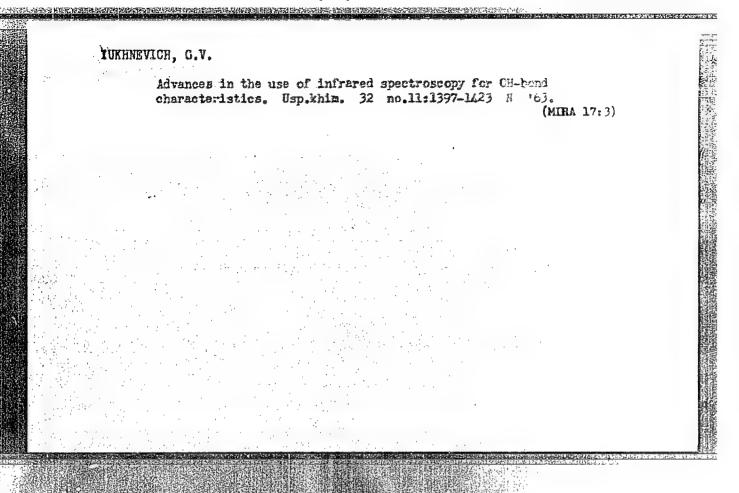
Study of the water condition in some zeolites. Geokhimia no.l: 48-57 Ja '63. (MIRA 16:9)

1. Vernadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R., Moscow.
(Zeolites)

AKHMANOVA, M.V.; KARYAKIN, A.V.; YUKHNEVICH, G.V.

Determination of hydroxyl groups in silicate minerals using the infrared spectra method. Geokhimiia no.6:581-585 Je '63. (MIRA 16:8)

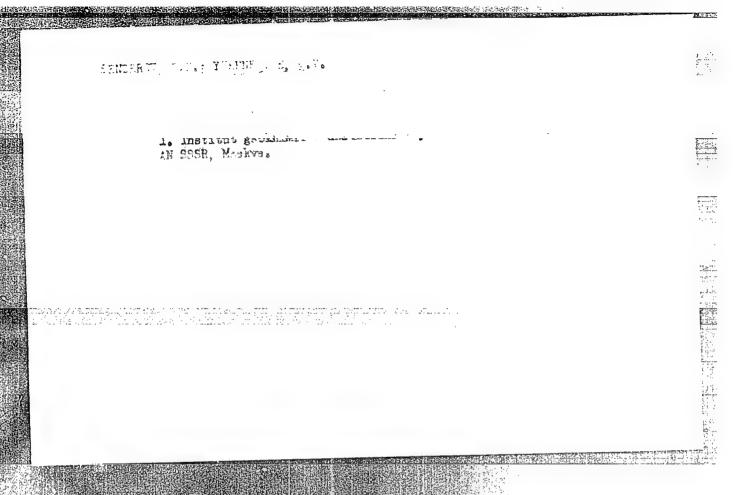
1. Vernadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R., Moscow.

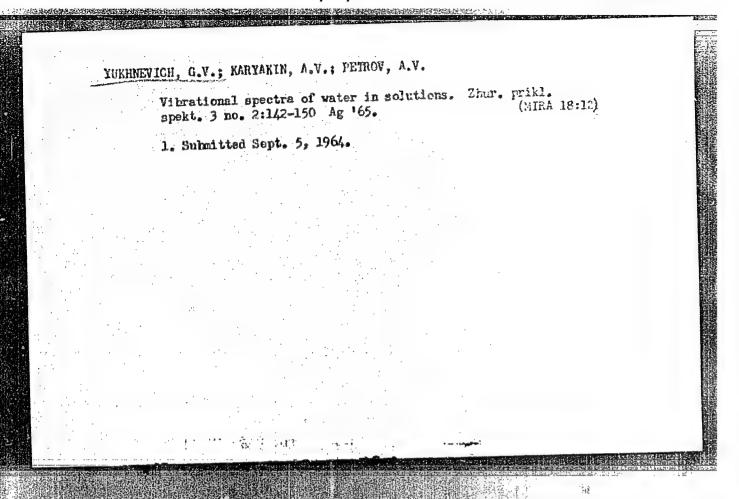


YUKHNEVICH, G.V.; KARYAKIN, A.V.

Relationship between the valence vibration frequencies of water molecules and the hydrogen bonding energy. Dokl. AN SSSR 156 no. 3:681-684 '64. (MIRA 17:5)

1. Institut geokhimii i analiticheskoy khimii im. V.I.Vernadskogo AN SSSR. Predstavleno akademikom A.P.Vinogradovym.





YUKHHEVICH, G.V.

Spectral study of the state of water in crystalline heteropolycompounds of tungsten and molybdenum. Zhur. prikl. spekt. 3 no. 6:516-524 D '65 (MIRA 19:1)

1. Submitted July 31, 1964.

YUKHNEVICH, R.C., inch., divy.SBERGO, A.C., inch.

Analyzing the dynamics of the main shaft line of the hygravite transmission for dress locomotives and trains. Vest. ISBIJ MPS 23 no.7:18-22 '64. (MIRA 18:3)

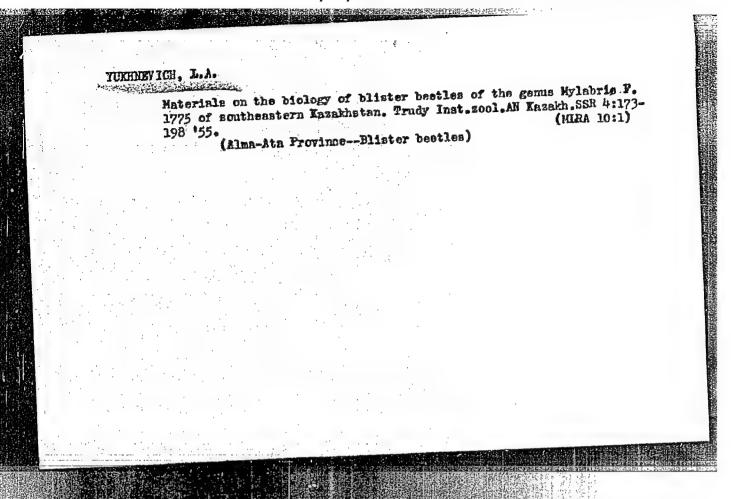
1. Kaluzhakiy mashinostroitel'nyy zavod.

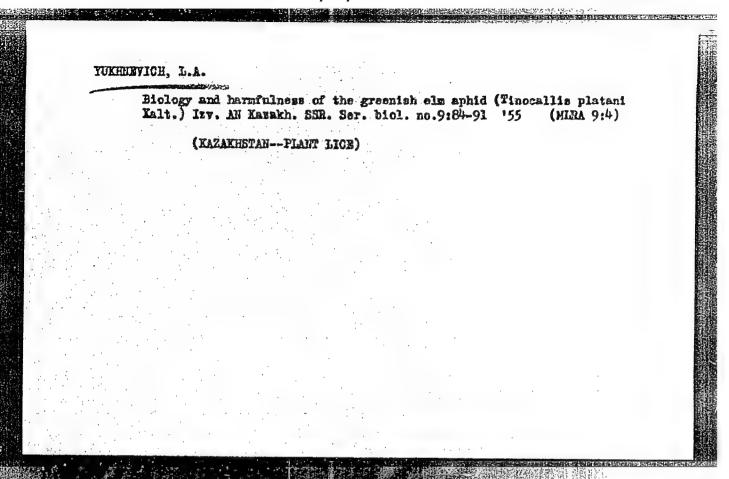
Fiological data on the blister beetle Hylabria conozona Well. with a description of the triungulin stage. Izv.AN Kazakh.SSR.Ser.zool. no.9:108-118 '50. (Blister beetles)

YUKHNEVICH, L.A. Biology and destructiveness of the summer-chafer (Amphimallon solstitiales Gebl.) and the cockchafer (Polyphylla irrorata L.) in the state forest nursery at Dzhambul. Isv. AH Kaz. SSR no.125: (MIRA 6:12) 140-145 '53. (Drhambul--Bestles) (Bestles--Drhambul)

CIA-RDP86-00513R001963120006-3"

APPROVED FOR RELEASE: 03/15/2001





YUKHNEVICH, L.A.; MATESOVA, C.Ya.; MITYAYEV, I.D.

Insects and mites, pests of fruit and berries in southeastern and eastern Kazakhstan. Trudy Inst. 2001. AN Kazakh. SSR 8:9-38

(MIRA 11:5)

(Kazakhstan--Insects, Injurious and beneficial) (Fruit--Diseases and posts)

Annotated list of 196 species of insects (orthoptera - 1, Proboscidea - 61, beetles - 61, hymenoptera - 5, lepidoptera - 68) and 3 species of Acarids. On the basis of published data, a list of 60 species of harmful insects and 3 species of Acarids is presented.

USSR/General and Specialized Zoology - Insects. Harmful Insects and Acarids. Forest Pests. P

Abs Jour : Ref Zhur I

: Ref Zhur Biol., No 6, 1959, 25524

Author

Yukhnevich, L.A.

Inst

: Institute of Zoology, AS KazSSR

Title

: Insects and Acarids - Pests of Elm Trees in Southern

and Southeastern Kazakhstan

Orig Pub

: Tr. In-ta zool. AN KarSSR, 1958, 8, 98-111

Abstract

The elm (E) family trees do not grow in wild state in Southern and Southeastern Kazakhstan; all their plantations are artificial. In 1952-1953, groves, parks, nurseries, field-protective belts, plantations in populated localities, plantations for the protection of life were examined. 62 insect species and 7 acarid species were registered on the elm trees. Some species were new.

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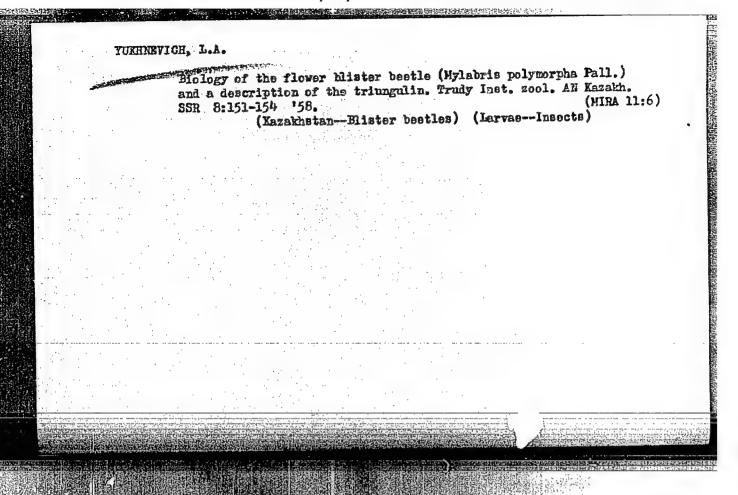
USSR/General and Specialized Zoology - Insects. Harmful Insects and Acarids. Forest Pests.

: Ref Zhur Biol., No 6, 1959, 25524

For the first time, a number of trees of the elm family were marked off as fodder plants. According to the degree of harmfulness, the following insects possess great significance: the gall mite (Eriophyes sp.); the greenish elm. the red-gal and non-migratory aphids; the smooth-leaved elm leaf beetle, the elm curved-antenna moth; the mulberry and elm geometrids, The character of damage to individual species of E is different. The pinnate-branched elm is damaged more than others; in the sou south of Kazakhstan, the dense elm; in the eastern part, the smooth-leaved elm. The wych elm and the Androsov elm are least subject to infestation. The specific pests of E in Southern and Southeastern Kazakhstan are: the gall mite, the thrips, the elm leafhopper, all the aphid species and the curved-antenna elm moth. -- A.P. Adrianov

· 医二氏性内侧上部 医多种形式 医多种原则 COUNTRY üssii Jeneral and Specialized Loology. Insects. Biology and Leology. CATROORY ABS. JOUR. : RZhBiol., Fe.23, 1958, No. 105267 AUTHOR : Tukhnevich, L. A.
: Instructe of abology, AS dazakh SSR
: In Reference to the Biology of the Flower Blister Beetle INST TITLE (Mylabris polymorpha Pell.) with a Description of Triungulin ORIG. FUB. : Tr. in-ta zool. All KadSSR, 1958, 8, 151-154 ABSTRACT : : On the occurrence of blister bestle M. polymorpha in eastern Kazakhstan oblast'. The feeding plants of the bestles. A detailed description of the triungulin is given. Card: 1/1

	Key to the primary larvae of blister beetles of the tribe Mylabrini (Coleoptera, Meloidae) in the fauna of the U.S.S.R. Ent. obox. 37 (MIRA 11:3) no.11:176-182 58.
	1. Institut zoologii Al KarSSR, Alma-Ata. (Blister beetles) (Iarvas-Insects)
are in the	



USSR/General and Systematic Zoology. Insects. Harmful Insects and Acarids. Forest Pests.

p

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11637

Author

: Yukhnevich L.A. : Institute of Zoology of AS KazSSR Inst : Title

: On the Biology of Lytta flavovittata Ball.

(Coleoptera, Meloidae) with a Description of the

Triungulin.

Orig Pub: Tr. In-ta zool. AN Kazssk, 1958, 8, 155-159

Abstract : L. flavovittata is familiar only in Southeastern Kazakhstan in the deciduous forests of the foothills of Zayilichniy Alatau, groves and parks. The beetles feed on leaves of the ash tree, olm trees and honeysuckle; mass multiplication of them brings about considerable damage. In the environs of Alma-Ata in 1950, the beetles appear-

ed in the second decade of May; mass emergence and

: 1/2

USSR/General and Systematic Zoology, Insects. Harmful Insects and Acarids. Forest Pests.

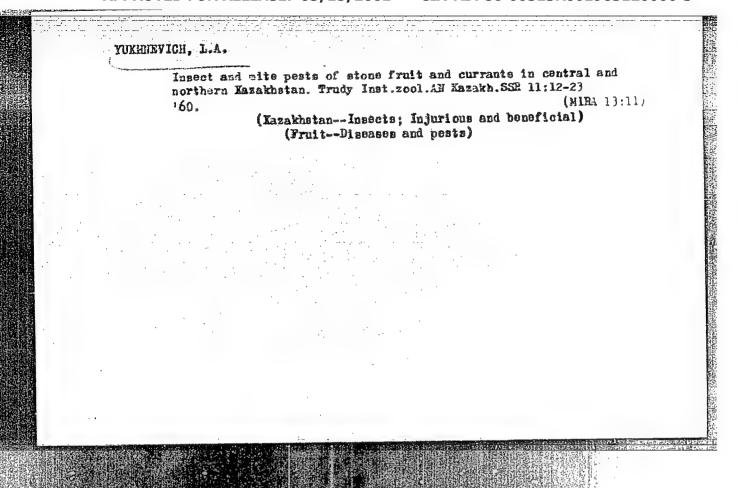
P

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11637

mating, in the end of May. Eggs were deposited 7-8 days after mating in a hole, 5-7 cm. deep, preferably in humid and loose soil. On the average, the deposit contains 823 eggs. A day after oviposition, the female dies. Egg stages last 7-8 days. The triungulin's hosts are unknown. -- A.P. Adrianov

Card : 2/2

YUKHNEVICH, L.A. COLATOY -: USSN " Carragony :GENERAL & SPEC . ZOOLOGY , INSECTS . Systematics and Faunistics. ABS. JOUR : Ret 2har -Bielogiya, No. 2 , 1959, No. 6922 : Pryamikova, M.A.; Yukhnevich, L.A. ADDITION . HIST. : Wot given TITLE : Determination Key for First Instar Larvae of Blister Beotles of the Tribe Mylabrini (Coleoptera, Meloidae) in Fauna of the USSR ONIG. PUB.: Entomol. obozreniye, 1958, 37, No.1, 176~182 BSTRACT : Dotermination tables of triungalins of Mylabris are given separately for subgenera (9) and species (29).



YUkrinavion, L.a.		
Nazakhstan. Prudy Inst.zool.All Kazakh.SSR 11:213-222 '60.		
(KazakhstanPlant lice)	(MIRA 13:11)	

MATESOVA, G.Ya.; MITYAYEV, I.D.; YUKHNEVICH, L.A.; MARIKOVSKIY, P.I., doktor biol. nauk, prof., otv. red.; ALYEROVA, P.F., tekhn. red.

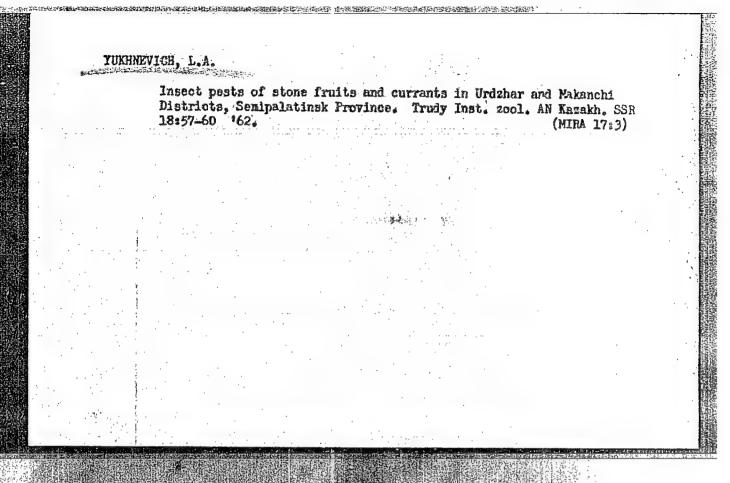
[Insects and mites, pests of fruit and berry crops in Kazakhstan]
Nasekomye i kleshchi - vrediteli plodovo-iagodnykh kul'tur Kazakhstana. Alma-Ata, Izd-vo Akad. nauk Kazakhekoi SSR, 1962. 203 p.
(MIRA 15:12)

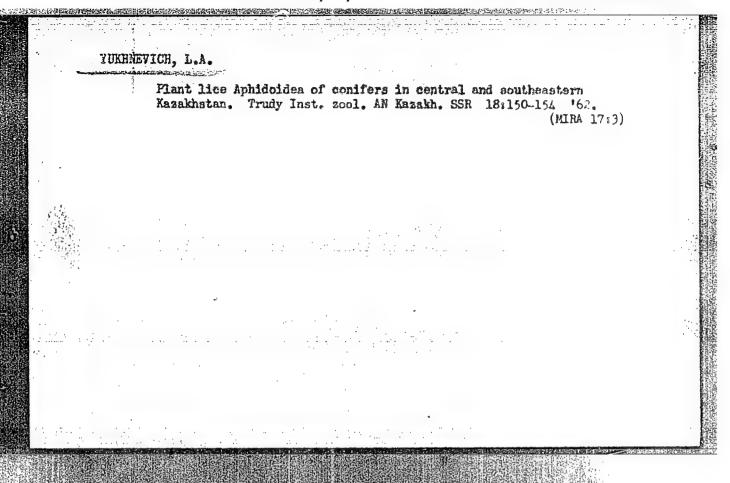
(Kazakhstan-Fruit-Diseases and pests) (Kazakhstan-Insects, Injurious and beneficial)

MATESOVA, G.Ya.; MITYAYEV, I.D.; YUKHNEVICH, L.A.

Review of insects damaging fruit and berry crops and grapevines
in southwestern Kazakhstan. Trudy Inst. zool. AN Kazakh. SSR 18:
3-45 *62.

(MIRA 17:3)

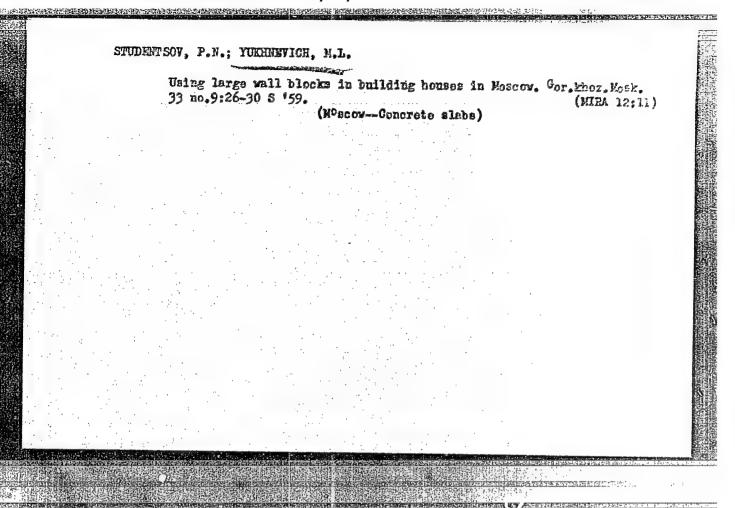




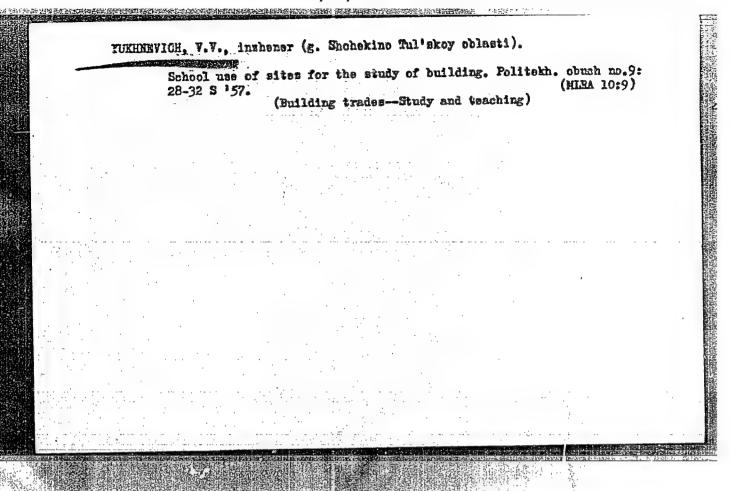
YUKHNEVICH, Lidiya Aleksandrovna; MATESOVA, Galina Yakovlevna; MITYAYEV,

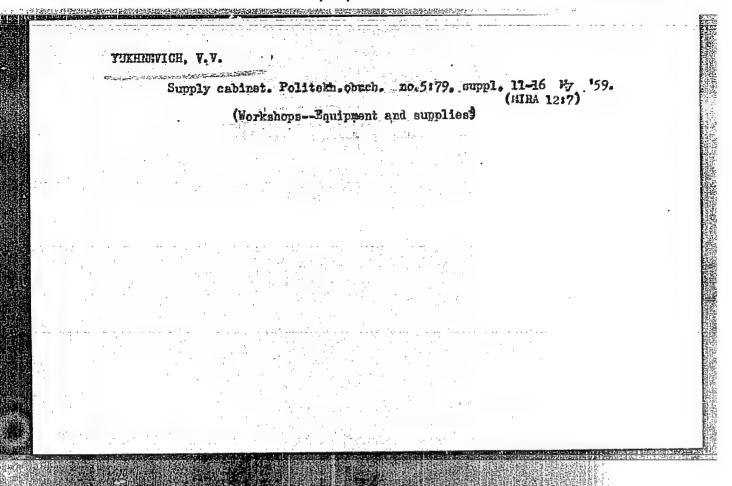
Ivan Dmitriyevich; SHEVCHUK, T.I., red.; RORDKINA, Z.P., tekhn.
red.

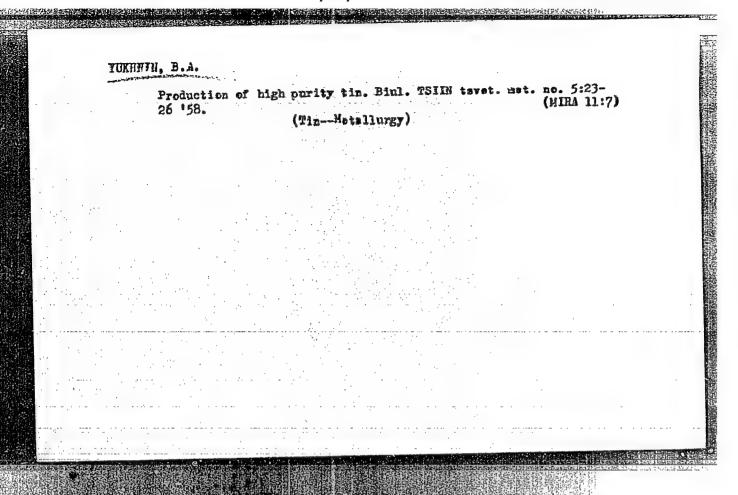
[Orchard and garden pests and measures for their control in
southeastern Kazakhstan] Vrediteli sadov i ogorodov i mery
bor'by s nim; Iugo-Vostochnyi Kazakhstan. Alma-Mta, Izd-vo
AN KazaSSR, 1963. 64 p. (MINA 16:5)
(Kazakhstan--Insects, Injurious and beneficial--Control)

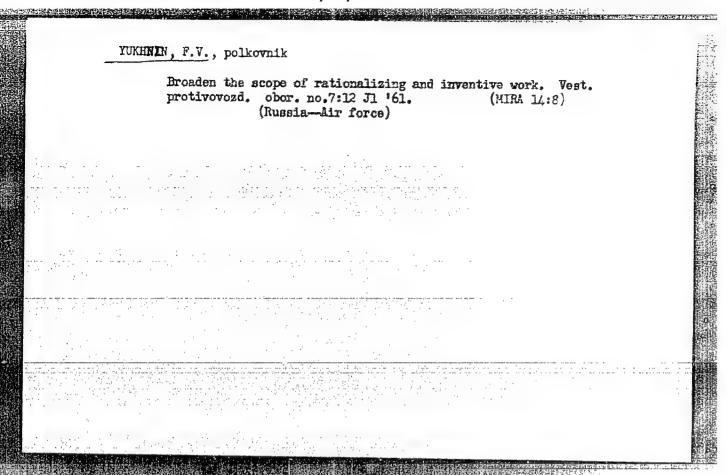


YOKHNEVICH. S.N. YUKHNEVICH, S.N. Synthomycin in the treatment of nongonorrheal and postgonorrheal urethritis. Urologiis 22 no.4:43-47 J1-4g 157. (HIRA 10:10) 1. Iz mochepolovogo otdela (zav. - prof. L.R.Leytes) i serobakterio-logicheskoy laboratorii (zav. - dotsent M.H.Izrael'son) Odesskogo nauchno-isaledovatel'skogo kozhno-venerologicheskogo instituta imeni Ye.S.Glavche (dir. - dotsent S.I.Matuskov) (URETHRITIS, therapy, chloramphenicol in non-gonorrheal & post-gonorrheal cases) (CHICEAMPHENICOL, therapeuticuse, urethritis, non-gonorrheal & post-gonorrheal (Rus))









1. YUKHNIN, Ye. I., Eng.

2, USSR (600)

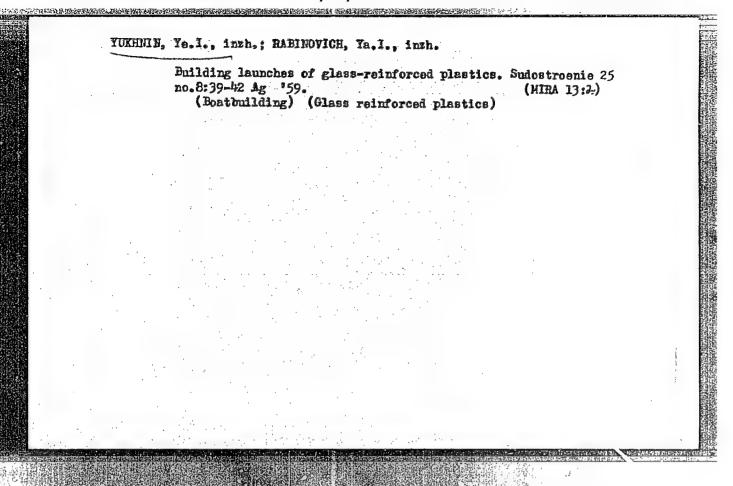
4. Ships-Maintenance and Repair

7. Strengthening the hull of a vessel with sheet plating. Rech. transp. 12, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

YUKHNIN, Yevgenly Ivanovich; KITAYEV, V.V., inzhener, retsenzent; BATIN, 1.A., redaktor; PRUHKIN, P.S., tekhnicheskiy redaktor

[Anchor, mooring and towing equipment] Iakornos, shvartovnos i buksirnos ustroistva. Ieningrad, Gos. soiuznos izd-ve sudostroit. promyshl., 1955. 141 p. (MIRA 8:7)
(Anchors) (Towing)



8(6)

SOV/91-59-9-4/33

AUTHOR:

Gurvich, S.M. and Yukhno, A.B., Engineers

TITLE:

Packaged Water Preheating Plants

PERIODICAL:

Energetik, 1959, Nr 9, pp 8-10 (USSR)

ABSTRACT:

The authors describe two unitized water preheating plants. Until recently, there were no unitized water preheating plants available for preparing feed water for low-power boilers. At the Saratovskiy zavod tyanhelogo mashinostroyeniya (Saratov Plant of Heavy "acknown me Building) tests of the first prototype of partial mobile water preheating plants were conducted with success. Such units have an output of 5 tons per hour. Their design is explained in Figure 1. The overall dimensions of these units do not exceed the trescribed dimensions of the USSR RR. The total metal weight is 2780 kg, while the shipping weight is around 6.5 tons. The deseration of the feed water is to to performed in a separate unit with feed pumps, or in the boiler units. A thermal deserator is planned.

Card 1/3

SOV/91-59-9-4/33

Packaged Water Preheating Plants

containing all devices required for removing oxygen, carbon dioxide and ammonia. Analogous to this unit, it is planned to manufacture in 1959 a series of unitized water preheating plants having an output of 10 tons per hour. These units are to be used at steam turbine power plants with capacities of 1500 kw. Power plants with capacities of 2250 and 3000 kw will receive two or more units. Based on the scientific research performed by MO TsKTI, a project of a water processing plant was worked out for power plants of 750 and 1500 kw, having an output of 5-10 tons per hour, shown in Figure 2. The processing of the raw water is performed according to the direct flow pressure system. The cationite filters work in series in a two-stage arrangement. The authors describe the function of this unit in some detail. They summarize the advantages frackaged water processing plants: 1) lower expenses for planning water processing equipment; 2) less

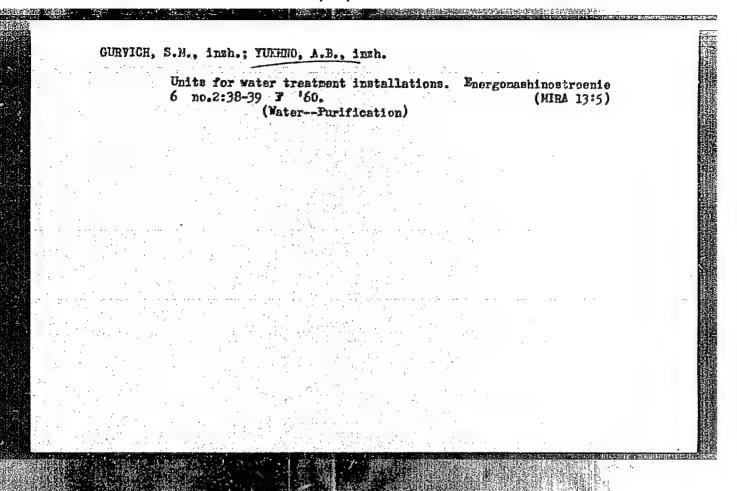
Card 2/3

SOV/91-59-9-4/33

Packaged Water Preheating Plants

space is required, 46 m³ instead of 145 m³, and equipment costs are reduced by mass production; 3) equipment is delivered ready for operation with all accessories. There are 2 diagrams.

Card 3/3



- 16 -

YUKHHOB, E. K., PORAY-KEHITE, M. A., ANTEISHKINA, A. A., and DIKAREVA, I. M.

"The Atomic Crystal Structure of Complex Acido-Amine Nickel Compounds" (Section 6-21) a paper submitted at the General Assembly and International Congress of Crystallography, 10-19 Jul 57, Montreal, Canada.

C-3,800,189

Institute of General and Inorganic Chemistry, Academy of Sciences (PORAY-KOSHITS, ANTSISHKINA, A. S. and DIKAREVA)

Moscow University Chemical Faculty (YUKHNOV)

AUTHOR: Yukhno, E.K. and Poray-Koshits, M.A. 70-2-6/24

TITE: The crystal structure of nickel trans-di-isothiocyanotetrammine. Stroyeniye kristallov trans-diizorodanotetramminnikelya)

PERIODICAL: "Kristallografiya" (Crystallography), 1957, Vol.2, No.2, pp.239-248 (U.S.S.R.)

ABSTRACT: Crystals of Ni(NH₃)₄(NCS)₂ are monoclinic with space group C2/m and unit cell dimensions a = 11.46 ± 0.02, b = 8.18 ± 0.02, c = 5.68 ± 0.02 KX and β = 105°.

d_{obs.} = 1.550 and d_{calc.} = 1.568 giving Z = 2. The compound is paramagnetic with μ = 3.31 Bohr magnetons. The refractive indices of the crystals in white light are n_γ = 1.674,

n_β = 1.618 and n_c = 1.561 and when freshly prepared the crystals are light blue. Retigraph photographs of the zero layer for rotation about c and for six layers for rotation about b were taken with Mo radiation and the intensities were estimated visually. There were 394 reflections in all, 71 in the xy projection and 97 in the xz. As the Ni atoms are fixed by the centering of the cell the Patterson projections gave the structure directly which was refined

70-2-6/24 The crystal structure of nickel trans-di-isothiocyanotetraammine. (Cont.)

until very close agreement between observed and calculated structure factors was obtained. The reliability factors for the hkO and hOl zones were (including observed zeros) 0.214 and the hkO and hOI zones were (including observed zeros) 0.214 and 0.242 respectively. Final co-ordinates (x, y, z) were:Ni (0,0,0); N (0.152, 0, 0.293); C (0.240, 0, 0.462); S (0.358, 0, 0.690); NH_z (0.083, 0.188, 0.834). The Ni atom is sixco-ordinated octahedrally by four NH_z groups and two NCS groups
the latter opposite each other. The lines SCN-Ni-NCS are almost
straight. The distances are Ni-N = 2.07 + 0.03, Ni-NH_z = 2.15
+ 0.02, N-C = 1.20 + 0.05, C-S = 1.61 + 0.04 kX. The NH_z
groups do not form a perfect square but lie at 3.08 and 3.00
kX from each other. The molecules lie in close packed layers KX from each other. The molecules lie in close packed layers parallel to the 201 plane. Acknowledgments to V.I. Belova and V.A. Koptsik. There are 16 references, 6 of which are Slavic, 8 figures and 3 tables.

ASSOCIATION: Moscow State University im. M.V. Lomonosova.

1 2/2 (Moskovskiy Gos. Universitet im. M.V. Lomonosova)

SUBMITTED: December 14, 1956.

AVAILABLE: Library of Congress

AVAILABLE:

(4KhNO) te.K. 70-3-8/20

AUTHOR: Poray-Koshits, M.A., Yukhno, E.K., Antsishkina, A.S. and

Dikareva, L.M.

TITLE: The atomic crystals structure of complex acido-amine

nickel compounds. (Atomnaya struktura kristallov kompleks-

nykh soyedineniy nikelya atsidoaminovogo tipa)

PERIODICAL: "Kristallografiya" (Crystallography), 1957, Vol.2, No.3, pp. 371 - 381 (U.S.S.R.)

ABSTRACT: The purposes of the investigations were to find the coordination number of the nickel atom and determine the position of the acid residuals X in compounds of the NiA₄X₂ type;
to determine the general character of the structure of thiocyanate-amine compounds (ionic salts, double molecular compounds, complex compounds), which fall out at different solution concentrations; to establish analogies and differences
in interatomic distances from nickel to addendium in different
compounds; to find the configuration and orientation of thiocyanate groups, to determine the inter-atomic distances and
the nature of N...C and C...S bonds.

The investigation of the above mentioned compounds belongs, as a compound part, to the systematic study of crystal chemistry of complex mickel compounds. It is of interest both in point of the theory of complex compounds in general and because

Card 1/7

The atomic crystals structure of complex acido-amine nickel compounds. (Cont.)

it may well give an explanation for the peculiar properties of

complex nickel compounds in particular.

Crystal Ni(C₅H₅N)₄X₅, where X = Cl, Br and NCS, are not isomorphous. The results of the investigations of tetragonal crystals Ni(C5H5N)4Cl2 were published earlier.

Crystals of Ni(C5H5N)4Br2 are orthorhombic; space group Pna; a = 15.8, b = 9.3, $c = 14.2 \pm 0.1$ kX.; $\sigma = 1.67$ g/cm⁻⁵;

Orystals of Ni(O5H5N)4(NOS)2 are monoclinic; the space group G^2/c or G^2 ; a = 312.3, b = 13.2, $c = 16.2 \pm 0.1$ kX., b = 120; c = 1.4 g/cm³; N = 4.

In both cases the structure investigation was carried out by means of Patterson projections, 'weighted' (generalised) Patterson projections of the first layer lines, with subsequent

calculation of centrosymmetrical projections of electron density. In both cases residuals Br and NCS are bound directly with nickel atoms and lie in transposition to each other.

Crystal Ni(NHz)4X2, where X = NO2 and NCS, are isomorphous; space group C2/m: N = 2.

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The atomic crystals structure of complex acido-amine nickel compounds. (Cont.)

In the first compound a = 10.77, b = 6.85, c = 6.12 ± 0.02 kX. β = 128; σ = 1.72 g/cm; in the second a = 11.46, b = 8.18, c = 5.68 ± 0.02 kX., β = 105°; σ = 1.55 g/cm.

The structural type of crystals was determined from Patterson projections and electron-density projections. A more precise determination of inter-atomic distances was achieved with the help of 'weighted' electron-density projections of the first layer line; in the final stage, electron-density sections were used. In both compounds acid residuals NO₂ and NCS belong to the inner region of the complex. The molecular six-coordinated octahedral arrangement of the addends seems to be typical of all nickel compounds of the NiA₂X₂ type, in contra-distinction to the similar Pd and Pt compounds, whose structure is [MA₁]X₂.

The results of structure investigation of crystals Ni(NCS)₂.

3NH₃ have already been published (M.A. Poray-Koshits, Proc.

Inst. Crystallogr. 1954, 10, 117). The molecular complexes
Ni(NH₃)₃ (NCS)₂ have the shape of tetrahedral pyramids with Ni
atoms in the centre of the base

atoms in the centre of the base.

Trigonal crystals Ni(NCS)2.NH4NCS.3NH3 possess considerable
plezcelectricity; space group P321; a = 10.2 c = 11.13 ± 0.02

The atomic crystals structure of complex acido-amine nickel compounds. (Cont.)

kX.; = 1.495 g/cm⁻³; N = 3. The structure is determined wifn the help of Patterson-function projections and Harker sections at heights 1/3 and 0 parallel to (OC1) and also by using electron-density projections along the second-order axis. The atoms are surrounded octahedrally by three molecules NH₂ and three groups NCS after the design a-a, b-b, a-b (edge isomer). Complex anions [Ni(NH₃)₃ (NCS)₃] are arranged according to cubic close packing, in the octahedral interstices of which ions NH₄, surrounded by six sulphur atoms, are to be found.

Crystals Ni(NCS)₂.2NH₄NCS.2NH₃.H₂O, which belong to the cubic system, also possess piezoelectricity; space group I23; a = 13.41 \pm 0.02 kK., σ = 1.523 g/gm²; N = 6. Six octahedral complex ions trans-[Ni(NH₃)₂(NGS)₄]² are arranged in all the corners of the eight cubes with edges 1/2a, except the points 0, 0, 0 and 1/2, 1/2, 1/2; these two are occupied by water molecules.

Eight cathions NH, are in the centres of the same cubes and card 4/7 are surrounded octahedrally by sulphur atoms of the thiocyanate group. The remaining four ammonium groups, together with four

The atomic crystals structure of complex acido-amine nickel compounds. (Cont.)

polar water molecules, form two tetrahedra around two water molecules in the corners of the cubes 0, 0, 0 and 1/2, 1/2, 1/2. Thus, all the thiocyanate-amine nickel compounds that fall out of the solution are complex in structure type and must be described by the following formulae:

 $Ni(NH_3)_4(NCS)_2$, $Ni(NH_3)_3(NCS)_2$, $NH_4[Ni(NH_3)_3(NCS)_3]$, $(NH_4)_2[Ni(NH_3)_2(NCS)_4]H_2O$

We succeeded in determining all inter-atomic nickel-addendum distances with sufficient precision only in centro-symmetrical structures. The distances are entered in Table 2, p.378, showing that in Ni(C₅H₅N)₄Cl₂ and Ni(NH₃)₃(NCS)₂ all the nickel-addendum bonds are of covalent character.

The Ni-S distance in the second compound is the contact of different molecules, which completes the nickel co-ordination to six.

The Ni-Br and Ni-NCS distances in bromine- and thiocyanatepyridine complexes, equal to 2.58 and 2.0 kX., also correspond

card 5/7 In spite of the isomorphism of Ni(NH3)4(NCS)2 and

The atomic crystals structure of complex acido-amine nickel compounds. (Cont.)

Ni(NH₂)₄(NO₂)₂, the relation between inter-atomic metal-addendum distances is quite different, In the first case it is the distances to four neutral substitutes that are increased; in the second, the distances to two acid residuals. Somewhat shortened distances between groups NO₂ and oxygen atoms of neighbouring molecules in Ni(NH₃)₄(NO₂)₂ lead us to suppose the

existence of weak inter-molecular hydrogen bonds. The abnormal colour of this compound may be accounted for by these structure peculiarities.

All the compounds containing NCS groups are isothioryanates. In all cases linear groups NCS lie on one straight line with the

Ni-N bond direction.

Group dimensions: in Ni(NH₃)₃(NCS)₂, N_I - C_I = 1.15 \pm 0.05,

C_I - S_I = 1.64 \pm 0.04, N_{II} - C_{II} = 1.12 \pm 0.05, C_{II} - S_{II} =

1.70 \pm 0.04 Å kX.; in Ni(NH₃)₄(NGS)₂, N - C = 1.20 \pm 0.05, C - S = 1.61 \pm 0.04 kX.

In spite of the varying distances it is obvious that the N - C bond becomes shorter, and C - S longer, as compared to

Card 6/7

The atomic crystals structure of complex acido-amine nidel compounds. (Cont.)

corresponding distances in methyl-isothiccyanate (N = C = 1.22, C = S = 1.56 kK.). There is no doubt that, at least, in the first of these two compounds the N ... C bond must be characterised as triple, and the C ... S bond as single. (Slightly condensed translation). There are 5 figures, 3 tables and 16 references, 11 of which are Slavic.

ASSOCIATION: Institute of General and Inorganic Chemistry

imeni N.S. Kurnakov

(Institut Obehchey Neorganicheskoy Khimi imeni N.S. Kurnakova)

(Moskovskiy Gosudarstvennyy Universitet imeni M.V. Lomonosow) Moscow State University imeni M.V. Lomonosov.

SUBMITTED:

February 22, 1957.

AVAILABLE: Card 7/7

Library of Congress

YUKHNO, E.K.

Synthesis and characteristics of crystals of some new ammonium thiccyanate compounds of nickel. Zhur.neorg.khim. 7 no.4:807-810 Ap '62. (MIRA 15:44)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Nickel compounds) (Ammonium thiocyanate)

CATEGORY : Weeds and Their Control

ABS. JOUR. : RZBiol., No. 12. 1958, No. 53938

AUTHOR : Yukhno, G.Ya.; Vorov'yev, N.Ye.

INST. : Not given

TITLE : Chemical Weeding

ORIG. PUB. : Agrobiologiya, 1957, No. 2, 132-133

ABSTRACT: At Izmail'skiy Experimental Field (Odesskaya Oblast) and under industrial production conditions in the kolkhozes and sovkhozes of Artsizskiy Rayon chemical weeding with 2,4-D

herbicide sharply decreased the weed choking in the fields and boosted the grain crop yields. A water sol. of the herbicide was sprayed in dosages of 0.6, 0.8 and 1.2 kg/ha

of active matter. -- T.L. Rivkind

Szmailskoye oplnoge pole,

CARD: 1/J

for high	corn yields. MTO	3 no.4:6 Ap 161.	(MIRA 14:3)
l. Predse Nauchno-t	ekhnicheskogo obsho	skogo oblastnogo prav hestva sel†skogo 1 le ovince—Corn (Maize))	snogo khozvavstva.
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ACC NR. AR6033103 SOURCE CODE: UR/0137/66/000/007/G028/G029

AUTHOR: Gol*dfarb, V. M.; Kostygov, A. S.; Yukhno, M. M.; Stepanov, A. V.

TITLE: Obtaining copper, brass, and bronze rods directly from the melt

SOURCE: Ref. zh. Metallurgiya, Abs. 7G236

REF SOURCE: Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena, v. 265, 1965, 144-150

TOPIC TAGS: molten metal, drawing, rod drawing

ABSTRACT: Laboratory experiments have been carried out for producing rods from copper, bronze, and brass by drawing directly from the melt. The process of drawing is similar to that for aluminum alloys. The drawing equipment consists of an induction furnace with a vacuum-tube generator and a graphite-fireclay crucible; a protective atmosphere is recommended so as to ensure a smooth surface and minimize both oxidation and burning out the alloy components. Orig. art. has: 2 figures and 1 table. Bibliography of 6 titles. [Translation of abstract]

SUB CODE: 11/

Cord 1/1 nat

UDC: 668, 3, 04

USSR/Farm Animals - General Problems.

Abs Jour

: Ref Zhur - Biol., No 15, 1958, 69216

Author

Yukhno, M.Yu.

Inst

Title

: Protein Feeding of Farm Animals

Orig Pub : Byul, sil'skogospod. inform, 1957, No 1, 41-42

Abstract

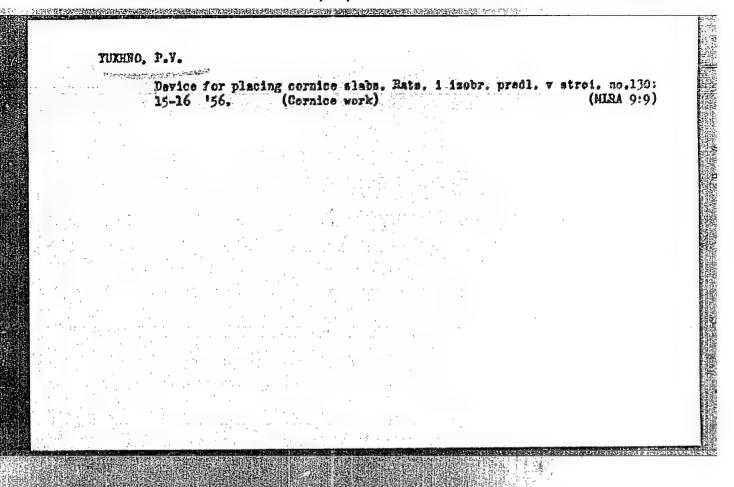
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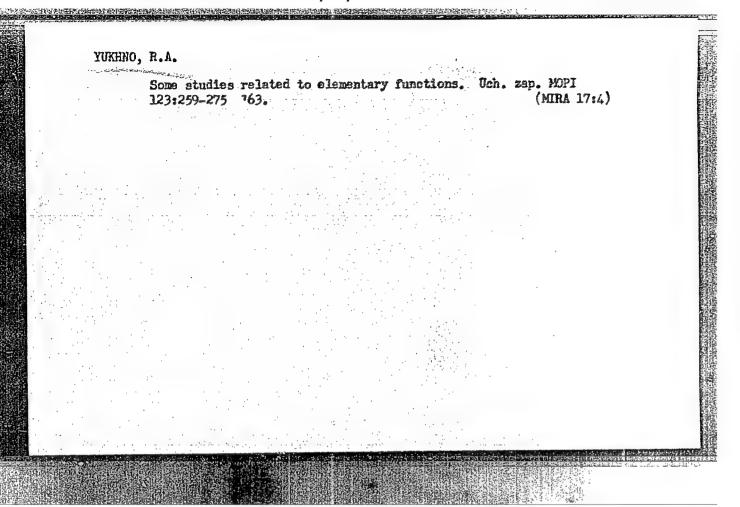
Card 1/1

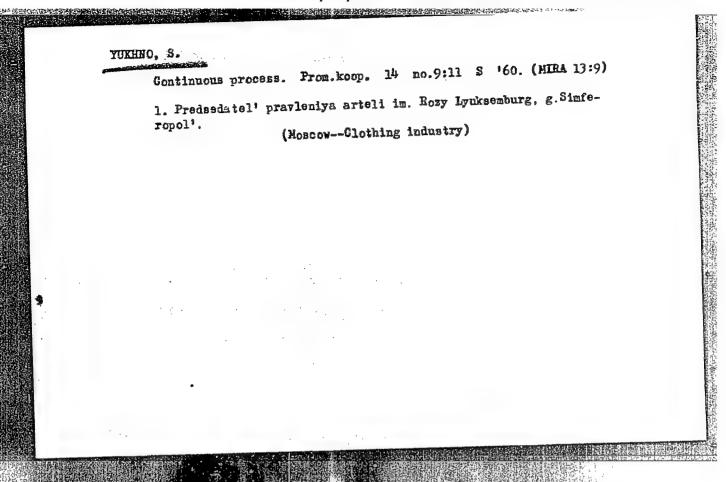
建设工程的基础的基础的设计的

AR7002228 (AN) SOURCE CODE: UR/0275/66/000/010/V028/V028 AUTHOR: Yezhkov, B. A.; Yukhno, N. Ya. TITLE: High-speed electronic shielding in high power high-voltage rectifiers and electron-tube oscillators SOURCE: Ref. 2h. Elektronika i yeye primeneniye, Abs. 10V187 REF SOURCE: Elektrotermiya. Nauchno-tekhn, sb., vyp. 49, 1966, 17-19 TOPIC TAGS: electronic shielding, electronic oscillator thyratron, rectifier, circuit design ABSTRACT: This shielding device contains seven thyratrons and is fitted with a high-voltage rectifier cutoff and d-c load shunting. The high-voltage rectifier has a cutoff time 2 14 m sec for the moment of breakdown, to cutoff of current flow through the rectifier. The pulse of the emergency current has a maximum value of 20% of the short circuit current of the anode transformer. A noninductive 0. 4-ohm resistor connected to the high-voltage rectifier output is used as the emergency current pickup. At the moment of failure, the d-c load is shunted by the shielding thyratron. Flow time for the emergency current through the load is limited only by Cord 1/2 UDC: 621, 314, 61

he ignition time of this invitation. Shielding device developed for high-frequency units of optical glass making in which ruptures in the crucible cause frequent generator failure. [Translation of abstract] SUB CODE: 09	
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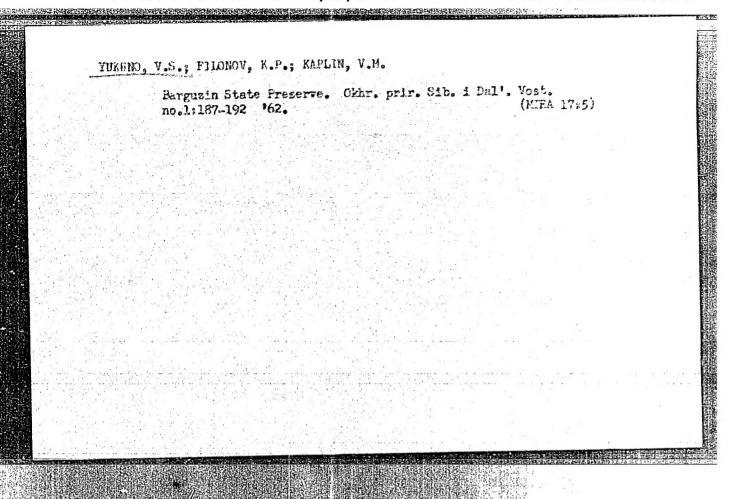
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